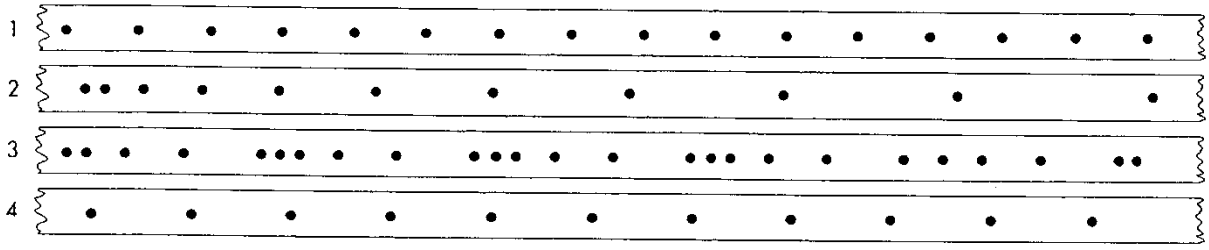
INTERPRETING TICKER TIMER TAPE

Questions

1. Look at the ticker tapes shown below.



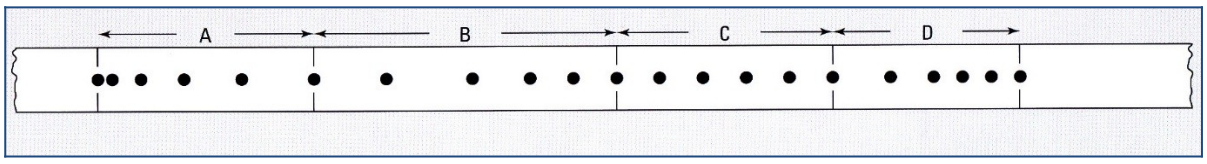
a) Which tapes show constant speed?

b) Which tapes show changing speed?

c) What is the difference between tapes 1 and 4?

d) How would you describe what happened in tape 2?

2. The diagram below shows part of the ticker tape record of the motion of a toy car as it is pushed along a table. As the tape moves through the ticker timer, a new black dot is produced every fiftieth of a second (0.02 s). The ticker tape has been divided into four equal time intervals labelled A, B, C and D.



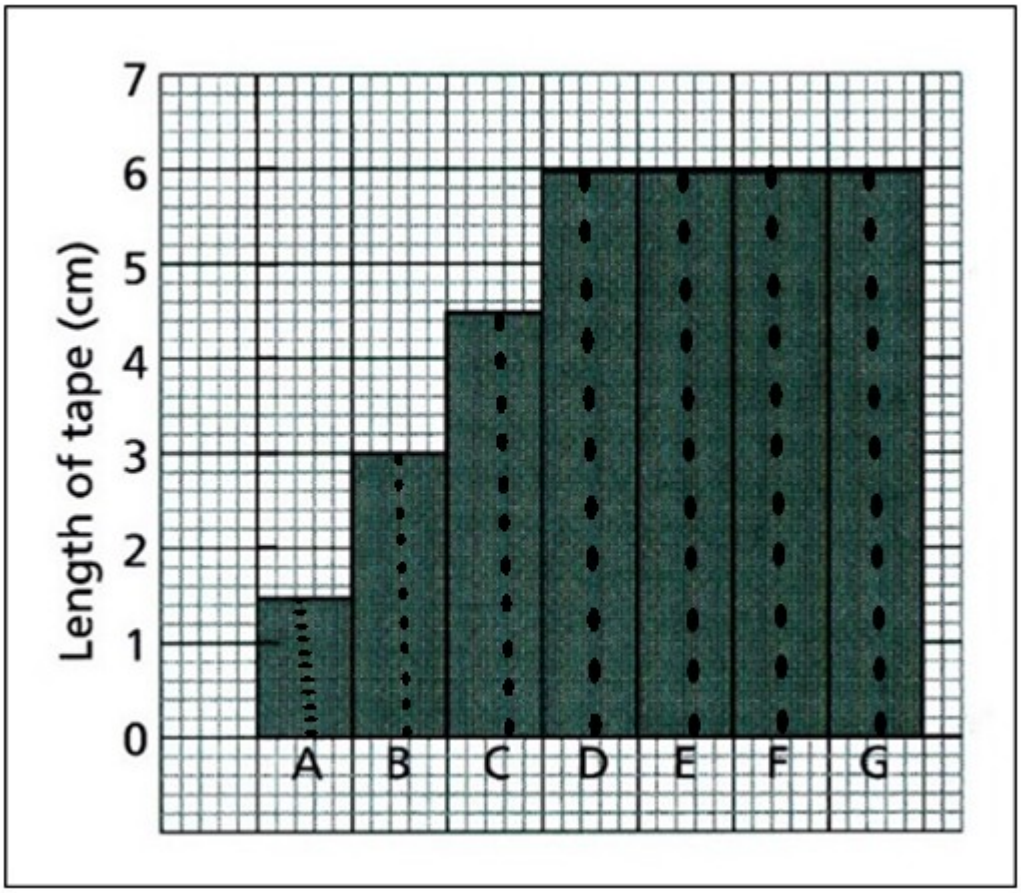
a) During which time intervals is the speed of the toy car increasing?

b) During which time intervals is the speed of the toy car decreasing?

c) During which of the four-time intervals is the speed of the toy car constant?

d) What period of time is represented by each of the four-time intervals?

3. A ticker timer is a simple vibrator that puts dots on to a paper tape at a rate of 50 dots in each second. A tape attached to a cart is passed under the vibrator and then cut into successive lengths, each containing 10 spaces between the dots. These lengths are used to produce the chart below.



a) What time does each length of tape represent?

b) What is the average speed for length A?

c) What is happening to the cart between A and D?

d) What is happening to the cart between D and G?